

RECORD

3500-

3767

CAPT

BOT

PLOWMAN

006

1974

	Enero	Febrero	Marzo
Do	6 13 20 27	3 10 17 24	3 10 17 24 31
Lu	7 14 21 28	4 11 18 25	4 11 18 25
Ma	1 8 15 22 29	5 12 19 26	5 12 19 26
Mi	2 9 16 23 30	6 13 20 27	6 13 20 27
Ju	3 10 17 24 31	7 14 21 28	7 14 21 28
Vi	4 11 18 25	1 8 15 22	1 8 15 22 29
Sá	5 12 19 26	2 9 16 23	2 9 16 23 30
	Abril	Mayo	Junio
Do	7 14 21 28	5 12 19 26	2 9 16 23 30
Lu	1 8 15 22 29	6 13 20 27	3 10 17 24
Ma	2 9 16 23 30	7 14 21 28	4 11 18 25
Mi	3 10 17 24	1 8 15 22 29	5 12 19 26
Ju	4 11 18 25	2 9 16 23 30	6 13 20 27
Vi	5 12 19 26	3 10 17 24 31	7 14 21 28
Sá	6 13 20 27	4 11 18 25	1 8 15 22 29
	Julio	Agosto	Septiembre
Do	7 14 21 28	4 11 18 25	1 8 15 22 29
Lu	1 8 15 22 29	5 12 19 26	2 9 16 23 30
Ma	2 9 16 23 30	6 13 20 27	3 10 17 24
Mi	3 10 17 24 31	7 14 21 28	4 11 18 25
Ju	4 11 18 25	1 8 15 22 29	5 12 19 26
Vi	5 12 19 26	2 9 16 23 30	6 13 20 27
Sá	6 13 20 27	3 10 17 24 31	7 14 21 28
	Octubre	Noviembre	Diciembre
Do	6 13 20 27	3 10 17 24	1 8 15 22 29
Lu	7 14 21 28	4 11 18 25	2 9 16 23 30
Ma	1 8 15 22 29	5 12 19 26	3 10 17 24 31
Mi	2 9 16 23 30	6 13 20 27	4 11 18 25
Ju	3 10 17 24 31	7 14 21 28	5 12 19 26
Vi	4 11 18 25	1 8 15 22 29	6 13 20 27
Sá	5 12 19 26	2 9 16 23 30	7 14 21 28

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MIAMI, FLORIDA

FAIRCHILD TROPICAL GARDEN

26 MAR 1974

3500. Erythroxylum <sup>novogranatense</sup> ~~granatense~~

ECON  
Roll 3  
US  
COL  
U

Shrub 3 m. tall cultivated in shade. Lvs. bright green above, pale green beneath, areolar region paler still. Fruits pale yellow, immature, ovoid. Near overlook. Shade.

3501. Erythroxylum confusum Britt.

ECON  
US  
Roll 2  
F  
COL  
MO

Shrub much branched from base 3 m. tall. Cultivated in Plot. 166.

Bark smooth, light grey. Retaining last season's leaves. Lvs. bilineate, medium green above, dull, pale green beneath, areola paler still. Sterile. Full sun.

3502. Erythroxylum confusum Britt.

ECON

US

S  
F Roll 2

Cultivated in plot 166 near 3501, same species, different plant. 3-4 m. tall. New leaves forming, old lvs. dropped. Young leaves bright green. Full sun.

3503. Erythroxylum areolatum L.

ECON

US

COL

MO

#



Roll 2-3

Shrub or small much branched tree to 3 m. tall. Bark fairly smooth, greyish-brown. Branchlets leafy. Leaves arched strongly at midrib, somewhat undulate at margin, bilineate median dull green above, pale green beneath, areolae concolorous. In bud. Some flowers opened or past. Fls. appear to last one day only, one fl. appearing per cluster. Pedicel & calyx light green. Petals white ~~for~~ turning yellow. Styles bright green,

Only long-styled fls. seen.  
Cult. in plot 164. Full sun.

3504. Erythroxylum confusum Britt.

COL.  
ECON  
F

Roll 3

Shrub 1.5 m. tall cultivated  
in plot 163, in full sun. Partially  
leafless. Several branches  
arising from near base. Lvs.  
bilineate; medium<sup>lt.</sup> green above,  
dull, pale green below, areola  
somewhat paler, margin slightly  
inrolled.



Calyx green, teeth brownish,  
minute. Petals yellowish.  
Styles green, short styled only  
seen.

Bark greyish brown, smooth.

Corral Gables, Fla. 24 MAR 1944.

3505. Cestrum diurnum L.

BH  
ECON

Shrub 1 m. tall growing in ditch  
in full sun along rail road track  
along US 1 at NORTH Kendall Rd.  
Fls. white, fragrant.





COLOMBIA

CUNDINAMARCA

ROAD FROM FUSAGASUGA to GIRARDOT  
9 mi. ~~W.~~<sup>S.</sup> from FUSAGASUGA at  
QUEBRADA SECA. Alt. 1050 m. (3700 ft.)

Secondary growth thicket along  
small stream (Quebrada Seca).

4 April 1974.

3506. Erythroxylum hondense HBK.

Roll 4, 5.

ECON

US

~~U~~ U

MBM

F  
NY

Shrub 1.3 m. tall. Stem slender  
c. 1.5 cm. diameter, smooth or slightly  
striate above, light greyish brown.  
Branches arching, sparse. Branch-  
lets mostly short shoots, reddish  
brown; current year's growth bright  
green.

Leaves newly formed, plane,  
soft membranaceous, bright  
yellowish green above, pale greyish  
green beneath, faintly bilineate,  
if at all, areolar region scarcely  
distinguishable, more so beneath.

Flowers few, in various stages  
but only one open per branch,  
axillary with 1-3 fls./axil.

Pedicel and calyx light green to  
pale yellow. Petals <sup>pale</sup> yellowish-green

appendages creamy white,  
bifurcated.



staminal cup pale green, filaments  
pale green to yellowish. Styles free,  
pale yellow-green, stigmas capi-  
tate, yellowish. Styles 3x longer  
than stamens (long styled).

Petals early deciduous.

→ 3506-A → F.

Ant + hemiptera collected on  
flowers.

Plant growing in full shade.

### 3507. Erythroxylum hondense HBK.

ECON)

~~W~~

F

COL

MS

F

IAN

UPS

MEXU

Shrub or small tree  
with several branches from  
near base, largest 8 cm. diameter.

Bark smoothish, dark greyish  
brown. Much branched above,  
the branches rigid, spreading.

Twigs medium greyish brown.

Older Leaves membranaceous but  
firmer than 3506, Dark green

above, dull, the lateral veins prominent, pale green beneath, the veins appearing dark green. Scarcely or not at all bilineate, areolae obscure ~~of~~ somewhat distinct below.

Flowers few, mostly in bud with a few open. As in 3506 but short-styled. Filaments to 2x as long as styles, creamy white, pollen white.

Fruit ovoid, pale green, smooth.

Plant growing along stream in partial shade.

3508. Erythroxylum hondense HBK.

(2)

ECW  
US

Shrub 1.5 m. tall along stream in partial shade. Completely deciduous, just starting to leaf out. In bud.

3509. Erythroxylum hondense HBK.

Photos with Don,  
trowel.

ECON

GTH

US

F

U

P

K

COL

JAN

NCU

JND

Tall shrub forked near base.

4-5 m. tall with erect branches.

Bark smooth, buff to light  
reddish brown. Branchlets  
light brown.

Leaves bright yellowish green  
above, pale greyish green beneath,  
soft membranaceous (newly  
formed), not bilineate or rarely so.

Flowers short-styled, only one  
fl. open per branchlet; 1-3 fls/  
node (axil) of last season's growth.

Pedical & sepals light green  
Petals yellowish green, appen-  
dages creamy white. ~~And~~ Filaments  
white, anthers cream. Styles  
yellowish green.

Fruits still green, ovoid, acute<sup>to</sup>  
blunt, with styles persistent, smooth.

In full sun.

N.V. "Coca"

Use: a few leaves are added to  
panela-flavored milk to make  
a beverage.

3510. Erythroxylum hondense HBK.

End roll 5.

Begin Roll 6.

Shrub 3 m. tall with many spreading branches. In full sun along stream.

ECON

COL

S

US

MO

GH

BH

IAN

VT

F

RB

NCL

CGE

UEC

G

NY

SP

HUT

Lvs. medium green above, pale green beneath, membranaceous, somewhat undulate at margin.

Fruits ellipsoid ovoid, light green becoming bright red, shiny, at maturity.

3511. Erythroxylum hondense HBK.

ECON

US

COL

F

Shrub 2.5 m. tall in partial shade. Fls. creamy white.

Caterpillars (3511-A) - actively stripping newly formed leaves.  
→ F (Eloria + something else!)

Population 4:1 long style to short.  
(out of five).

3511-A. Eloria Lepidoptera on 3511. / 3511-B. Indet. Caterpillar.  
→ F. / → F

Dept. Atlantico, Barranquilla  
District. Sandy hills behind  
beach near Salgar toward  
Sabánilla. 12 April 1974.  
sea level to 10 m.

MO  
ELON  
US  
COL  
P  
3512. Erythroxylum carthagenense Jacq.

Roll 7.  
Fungi  
Shrub 3-4 m tall growing  
in full sun on sandy hillside.  
Thorn scrub thicket.

LF. sample sent to  
Duke: 16 MAY 1974.

Trunk single or forked to 10 cm  
diameter. Bark smooth, somewhat  
cracked, light grey to reddish  
brown.

Lvs. firm membranaceous  
to subcoriaceous, dull dark  
green above, pale green  
below, pilose, areolae stem  
paler green, veinlets dark green,  
conspicuous.

Branches erect, at right  
angles to stem, developing rigid  
and somewhat pointed shortshoots.

3513. Erithroxylum carthagenense Jacq.

col  
ECON  
US  
MO  
Glt  
S  
F

Tree 3-4 m. with many erect branches from the base. Short shoots rigid + perpendicular to many branch.

Bark light grey to greyish brown. Lvs. somewhat shiny, yellowish green above, pale green below, bilineate with paler areolae. Older lvs. darker. Buds and flowers prolific on past seasons' shortshoots.

Pediceal + calyx light green. Buds yellow. Petals white, becoming creamy white. Filaments greenish white. Anthers yellow. Style pale green, stigma yellow-green still.

Young fruits shiny, ~~dark~~ green. Stigmas + filaments persisting. Short styled plant.

Roll 8  
Kodak II

Blue grey butterfly visiting flower.

Growing in sand along beach at edge of backwater, facing the sea; <sup>also along</sup> road. Common in this zone. Thickets.

3514. Erythroxylum carthagenense Jacq.

ECON  
Coh  
GTH  
US

Same as 3513. Different  
plant: Short styled plant.

3515. Cassia bicapsularis L.

(4)

det R. Barneby 1975.

Coh  
NY  
GTH.

Scandent shrub ~~to~~<sup>to</sup> 2m. tall.  
Fls. yellow-orange. Pods  
pale green, turning brown  
when ripe.

Ant plant. In dunes behind  
beach.

3516. Jaquinia aristata Jacq.

(2)

Coh  
GTH

Low shrub to 1m. tall  
in sandy hillside behind beach.  
Lvs. shiny, medium green  
above, ~~shiny~~ paler beneath.  
Fls. red-orange.



3517. Pristimera verrucosa (HBK.) Miers Bignoniaceae  
(7)

cd  
GH  
U  
K  
US

Scandent or erect shrubs growing  
on sandy hillside. Stems twining.  
Fruits flat, green. Common.

3518. Pereskia guamacho Web.  
colombiana Britt. & Rose  
(3)

cd  
GH

Small tree with one main trunk  
4-5 m. tall. Leafless but fls.  
just past. In bud.

3519. Capparis flexuosa L.  
acutissima Jacq. Capparaceae  
(6)

cd  
GH  
U  
K  
US  
MO

Scandent shrub 3 m. tall  
growing on sandy hillside in  
thicket. Fls. pure white...Frs.  
still green.

Colombia: Depto. Atlántico.

Puerto Colombia and environs.


8-10 m.s.m. 18 April 1974.

3520. Humboldtella ferruginea (HBK.) Harms  
Lonchocarpus leguminosae  
(4) det. V. Radd 1977.

Bay  
Roll

Ch.  
NY  
GH  
K

Slender tree 4 m. tall along  
caño in sandy soil.

Banner white with 2 bright  
yellow, oblong spots at base outlined  
with violet. Wings and keel  
white, violet on upper half.   
Fruits green.

Fs. visited by large blue-black  
bees. Only one tree seen.

3521.  
(5)

Malpighiaceae

Ch.  
GH  
US  
U.

Vine in thicket on sandy  
hillside. Calyx ochre. 4  
Petals bright yellow, 1 petal  
smaller strongly veined red.

Pedilanthus tithymaloides (L.) Poit.

3522. ~~Euphorbia caracasana~~ Biss. Euphorb.

(5) Succulent leafless shrub,  
mostly unbranched. Abundant  
milky juice.

Col.

GH

K

foto.

Berets red on dorsal side,  
green below. Filaments white,  
anthers red. Ovary green,  
style red.

3523. Pristimera verrucosa (HBK.) Miers

(9) = 3517. Hippocrateaceae

Col.

GH

U

K

Mo

F Woody Vine forming thickets.

NY

US

Fls. minute, yellowish. FRS.

3-merous, flat, green.

Hippocratea volubilis L.

3524. ~~Pristimera verrucosa~~ ~~caladaceae?~~

(10) det. A.M.W. Monnega III - 1976.

Col.

GH

U

K

Mo

F

NY

P

US

Vine in thicket. Woody to 3 cm.  
diameter. Infl. 2x15 and petal  
greenish yellow. Ovary light green.

3525 Bauhinia glabra Jacq.  
(10) det Kew

Cdh. K  
GH NY  
U F  
P US

Scandent shrub 3 m. tall.  
Pods brown.

3526. Prosopis juliflora (Sw.) DC.  
(14) det Kew

Cdh.  
GH  
K

Spreading shrub 2 m. tall  
in sandy hilltop clearing.  
Fls. yellowish-green.

3527. Acacia farnesiana Willd.  
(6) det Kew

Cdh.  
K  
US  
GH

Spreading shrub 2 m. tall  
in sandy hilltop clearing.  
Fls. deep yellow.

3528. Rauvolfia viridis R. + S. Apocynac.  
(5) ~~Euphorb.~~

COL  
K  
US  
GH

Shrub 1 m. tall in sandy  
hilltop clearing.  
Fls. smelt white. Only one seen.  
Abundant milky latex

3529. Opuntia  
(3)

Cactae

Col (GH)  
GH  
US

Tinted cactus 0.2-0.6 m. tall.  
Fls. yellow. FRS. bright carmine  
red. On dry sandy hillside.

3530. Batis maritima L.

Col  
GH  
K  
US  
W  
MO  
F  
NY

(9) Low sprawling shrub 0.3-0.5  
m. tall forming thicket in low  
lying area near the sea,  
~~possibly~~ a former salt water  
marsh. Foliage bright yellowish  
green; stems, leaves and  
fruits succulent.

3531. Sesuvium portulacastrum L. Aizoaceae  
(4)

Col.  
GH  
U  
US

Prostrate succulent herb  
growing in maritime formation  
in sand. Stems pink to carmine  
red. Lvs ~~greenish~~ greyish green.  
Flowers pink.

- 19 April 1974. Same locality.  
3532. Capparis ~~florosa Blume~~  
(9) indica (L.) Fawcett + Rendle.

Shrub 3 m. tall on cliff  
edge overlooking sea.

Soil: sand over <sup>2 ft</sup> calcareous? rocks.

Leaves coriaceous, light  
green. Pedicels, calyx,

synophore yellow ochre.

Petals + filaments  
white.

- Manihot carthaginensis (Jacq.) Müll. Arg.  
3533. Jatropha gossypifolia L.  
(8) Det. W. Punt 1976.

Spindly shrub 3-4 m. tall,  
nearly leafless, in thorny  
woodland-thicket. Young  
stems green, with abundant  
milky latex. Perianth pale  
greenish yellow, brownish  
pink axially near the base.  
FRs. round, green.

3534. Platymiscium pinnatum  
(8) [Jacq.] Dugand

Repiliaceae

Col  
GH  
L  
US  
K  
MO  
NY

Small tree 4-5 m. tall on rocky  
+ sandy hillside. Young leaves  
bright, shiny green. Peduncle  
and calyx yellowish green.  
Petals yellow-orange.

3535. Guazuma ulmifolia Lam.  
(4)

Col  
GH  
K

Shrub 3 m. tall on rocky  
hillside in thorn scrub.  
Flowers yellow.

~~Mezmaerium~~

3536. ~~Picramnia~~ Myrospermum frutescens Jacq.  
(3)

Col  
GH  
NY

Small tree 3 m. tall, nearly  
leafless, growing in sandy bottom  
land. Fruits shiny, bright  
green.

3537. Pithecellobium dulce Benth.  
(11) det Kew.

Multi trunked tree with  
short spines and spreading  
Crown, ~~5~~ 6 m. tall,  
growing in sandy bottom  
land. Perianth greenish,  
filaments creazy.  
Fruits spiralled, reddish  
at maturity, dehiscent.

3538. Ipomoea pes-caprae L. subsp.  
(7) brasiliensis (L.) Van Ooststroom

Prostrate vine growing  
in sand at edge of saline  
marsh, near ocean.

Flowers magenta-pink.  
Abundant milky latex in stems.  
det. Kew 1981.

col  
GH  
U  
NY  
US  
MO  
F  
K

Col. GH  
E (CN) U  
End K  
Roll 9 US  
8+W



20 April 1974. Same Locality.

3539. Heliotropium curassavica Boraginaceae  
(7).

Prostrate herb on mud-sand  
flat near beach. Succulent.  
Fls. white.

3540. Avicennia nitida Jacq.  
(8)

Shrubs up to 2-3 m. tall.  
in mud flats near sea.  
Fls. white, fragrant. Lvs.  
coriaceous, ~~leaves~~ brittle.

3541. Crotalaria verrucosa L. Fabaceae  
(9)

Shrub along edge of mudflats,  
1 m. tall. Lvs. medium green,  
membranaceous. Banner  
white with violet veins, wings  
violet. Fruits light green,  
brown on drying.

GH  
Col  
U  
K  
US  
3542. Antigonon leptopus Polygonaceae  
(8) Hook. et. Arn.

Vine growing in gravel  
p.te along road. Perianth  
bright pink.

GH  
Col  
U  
US  
K  
F  
NY  
MO  
3543. Cordia dentata Poiret  
(10)

Tree 34 m. tall at edge of  
In thicket honeyard along road. ~~Fls.~~  
Fls. creamy white. Frs. green  
turning white at maturity.  
Lvs. dark green, shiny above;  
dull, pale green beneath.

A. FLAVESCENS (L.) Ktze. DET. N. HENSOLD 1990

3544. Alternanthera brasiliana (L.) Ktze.  
(11) A. flavescens Kunth <sup>det Kew 1978.</sup>

Col  
GH  
U  
K  
US  
MO  
F  
Spreading climbing herb  
2-3 m. tall in thicket  
along roadside. Infl. greenish-  
white. Frequent.

3545. Ipomoea carnea Jacq.  
(8)

col.  
GH  
U  
K  
US

Partially vining shrub to  
2.5 m. tall in dry roadside  
thicket. Corolla pale pink.  
Frequent.

~~3546~~ Moringa oleifera

perennial

Tree 6 m. tall cultivated  
along roadside. Flowers white,  
anthers yellow. Pods light  
brown at maturity.

3547. Datura innoxia Mill.  
(5)

col  
GH  
MU

Foetid herb in dry open place  
along road. 0.5 m. tall.  
Capsules pale green.

GH  
Col  
U  
K  
US  
MO

3548- Cnidoscolus tubulosus I.M. Johnston  
(6)

Spiny herb  $\frac{1}{2}$  m. tall along  
road in dry waste place.  
Abundant milky juice.  
Fls. white. Frequent.

GH

3549. Solanum  
(1)

Shrub 1.5 m. tall in  
dense thicket along road.  
Only one seen. Fruits  
dark green.

GH  
Col  
U  
MO  
NY  
F

see #3528

3550. Rauwolfia viridis R. & S. Apocynaceae  
(6)

Shrub 1.5 m. tall  
along roadside. Fls.  
white. Fruits green,  
then yellow, then red, then  
black at maturity.

COL  
GH  
U  
MO  
K

3351. Momordica charantia L.

(5)

det. C. Jeffrey 1979.

Herbaceous vine forming  
thickets. Fls. pale yellow.  
Fruits orange.  
Frequent.

Barranquilla. 27 April 1974.

3552. Pereskia grandiflora

(4)

cf. Bleo (HBK.) DC.

col  
GH  
NY

Shrub 2-3 m. tall cultivated  
in garden. Fls. red-orange.

Color  
Roll 10 + 11

Depto. Magdalena:  
Santa Marta. Road from  
Minca S. to Atenas de Tevesor.  
28 April 1974 1760-8360 ft.

3553. Solanum

GH (H)

Col  
MO

Shrub 2 m. tall along  
roadside, 10.7 mi. from  
Santa Marta. Alt. 1760 ft.  
Fls. white. Frs. green.  
Full sun.

x 3554. Solanum sect. Torva

Solanum.

foto

Shrub 1-2 m. tall  
in moist place along road  
12 mi. south of Santa  
Marta. Alt. 2230 ft.  
Fls. white. FR. green.  
Full sun.

var. comosus

3555. Costus comosus (Jacq.) Roscoe  
(H) det P.M. Maas 1975

cd  
U  
GH  
Herb 1.5 m. tall with  
terminal inf. on leafy stalk.  
In moist shady place  
along road 14 mi. south  
of Santa Marta. Alt. 3120 ft.  
Bracts red. Corolla yellow.

3556. Hoffmannia?  
(2)

Rubiaceae

cd.  
GH  
Understory shrub 2 m. tall  
along moist ravine, 16.5 miles  
south of Santa Marta. Alt. 4000 ft.  
Corolla tube dark red, petals  
yellow.

3557. Maranta cf. tonckat Aubl. Marantac.  
(2) det HK 1978

~~Mar.~~  
(H/K)  
GH  
Tuberous herb 1 m. tall.  
Bracts green. Ovary yellowish  
Fls. yellowish-green, pallid.  
In moist ravine in deep

Shade. 16.5 mi. S. of Santa  
Marta. 4000 ft. elev.

→ Heliconia meridensis Kl. det. L. Andersson 1983.  
3558. Heliconia schneeana  
(4) det. G. Daniels fl.

COL  
U  
GH  
F

photos Unclumped herbs 1-2  
m. tall. Rachis and  
bracts deep red. Pedicels  
bright yellow. Ovary  
bright yellow, chartreuse  
above in fruit.  
Perianth yellow.

Shady moist ravine 16.5  
mi. South of Santa Marta.  
Alt. 4000 ft.

Rhodospatha wendlandii Schott  
3559. ~~Maribaea~~ det. Dan Nicolson fl.  
GH (6) = R. cf. latifolia Poepp. det. Kew fl.

COL.  
K  
MO  
US

photos Epiphytic herb on  
tree trunk along road,  
17.2 mi. South of Santa  
Marta, alt. 4200 ft.  
Spathe white.



X 3560. Solanum

Discard aff. quitoense  
lulo silvestre

Roadside. 7000 ft. elev.  
Calyx hairs bright violet.  
Frs. densely covered

3561. Geonoma undata Kl.

Blumse

(6) det H.E. Moore

Col

BH

GH

U

US

Small palm 5-6 m.  
tall along roadside in  
cloud forest, 30 mi. south  
of Santa Marta. Alt. 8360 ft.  
Petiole .6 m long, Blade  
1.0-3 m. long, .50 m. ~~to~~  
across. ~~st~~

Peduncle axillary, dark  
green. Frs. dark green.

3562. Philodendron cf. KRUGII ENGLER Arac.  
||)?

Climbing epiphytic  
herb. Clear sap with strong  
scent of carrot.

live  
SEL #47-75-8

MO

Lvs. dark green above,  
semi nitid, shiny pale  
green beneath.

Spathe green with light  
red blush

Alt. ? ~ 4000 ft.

Colombia: Depto. Magdalena.

Road from Bonda to Mesingá.

Coll. T. Plowman, W. Davis, D. Stephens

30 April 1974. Alt. 300 ft. (Alt. 76 m)

1 mi. from main road near Bonda.

Willi was here!!!

3563. Erythroxylum havanense Jacq.

Lf. sample  
sent to Duke  
16 MAY 74.

ECON

US

F

MO

COL.

U.

K

IAN

UPS

RB

NCU

MEXU

Shrubs growing along ravine in very dry and highly disturbed thorn scrub-woodland. Mostly burned over and grazed.

Shrub 1 m. tall much branched from base with 5-6 main trunks.

Bark smooth, greyish to reddish brown; younger branches dotted with lenticels, rigid.

Current years twigs newly developed, smooth dull green, stipules paler green.

Lvs. still young, membranaceous, soft, bright <sup>yellowish</sup> green above, very pale green beneath, areolate-obovate, hardly bilineate except when damaged in development.

Frs. present on last seasons growth with 1-4 frs. per axil.

Pedical pale green, erect.  
Calyx persistent, pale green,  
teeth slightly incurved.  
Young fruits pale green.

3564. Erythroxylum havanense Jacq.  
ECON  
US  
COL  
Same as 3563, different  
plant. Shrub  $\frac{1}{2}$  m. tall.

3565. Erythroxylum havanense Jacq.  
ECON  
US  
D  
NY  
Same as 3563, different  
plant. Shrub  $\frac{1}{2}$ -1 m. tall.

Alt. 300 ft. Only one small  
colony seen.

3566. Havardia platyloba (Spreng.) Britton  
(5) Cottandra

Col.  
GH  
U  
NY  
F  
K  
MO

Small tree with spreading branches 2-4 m. tall. Fls. pure white, fragrant in late afternoon of honeysuckle. Common.

3567. Croton niveus Jacq.  
(3)

Col  
GH

Shrub 2-3 m., leafless in flower.  
Fls. white. Common.

~~X 3568. Hamelia~~

Rubiaceae

foto!

~~Subshrub to 1 m. tall in wet place along road.  
Corolla tube orange-red.~~

3568. Syngonium

(Live!)  
Selby

leafless vine creeping through shrubs.

~~3569.~~

GH

Meleostomat.

Herb 30 cm tall along  
drainage ditch.  
Fls. white.

3570 - Kyllinga sp.

Cyperaceae

(3)

Herb growing in wet  
place along drainage ditch.

Col  
GH  
NY

~~3571.~~

Cyperaceae

Herb growing in wet  
place along drainage ditch.

3572. Stachytarpheta orubica (L.) Vahl

(5)

Herb 1 m. tall along  
drainage ditch.  
Fls. prussian blue.

GH  
Col  
NY

3573. ~~Salvia~~ Ocimum micranthum Willd.  
(7) det. R. Harley 1986.

GH  
COL  
US  
MO  
K  
U

Herb 20-30 cm. tall. Fls.  
whitish.

Strongly aromatic.  
In wet place along drainage  
ditch.

~~3574.~~

Compositae

Herb 20-40 cm. tall  
along drainage ditch.  
Capitula white.

~~3575.~~ Solanum

Shrub 2.5 m. tall in thicket  
along road.  
Corolla rotate, white. Young  
fruit green.

3576. Lygodium  
alt (2)

Colu

Climbing fern on  
rock wall along road  
in moist place, shade.

~~3577. Thevetia~~

Roadsides + woods at  
Mzingu. Alt. ~~3400 ft~~ 3800 ft.  
Small tree 3-4 m. tall.  
Fls. yellow. Fruits  
bright green.  
Abundant milky juice.  
Fls. with odor  
1.8 mi. from main road to Bonda.

3578.

GH

Bignoniace.

Vine in thicket along  
road. Fls. yellow.  
Alt. 740 ft. 3 mi. from  
main road to Bonda.



3579.

Malpighiaceae.

Spindly shrub, leaves  
newly formed, 2 in. tall.  
Fls. yellow. Lvs. dark green.

3580. Erythroxylum <sup>densum Rusby.</sup> ~~striatum~~

Shrub 24m. tall on

edge of cliff overhanging  
road. Alt. 6600 ft. (550-600 ft.)  
3.4 mi. from Bonda (road). (180 m.)  
Fls. pale <sup>greenish</sup> white.

Lf. sample  
sent to Duke  
16 MAY 1974.


~~COL~~ F

US

GH

COL.

Open branched, somewhat straggly  
shrub, growing among large granite?  
boulders.

Bark dark brown dotted with lighter  
brown lenticels. Lvs. subcoriaceous,  
concave  slightly, dull dark  
yellowish green above, pale green beneath  
with well defined areolar region which is  
lighter with less definite veinlets.

Subsessile Fls. prolific, 1-4 in older leaf axils. Calyx light yellow  
green. Petals creamy white or greenish, filaments  
white, anthers light brown; short-styled.

3581.

Myrtaceae

Small 2 m. tall overhanging  
Cliff. Lvs., frts. bright green.  
Alt. 740 ft.

3.8 mi. from highway (Bonda).

3582.

Anthurium

destroyed

Rosette herb on steep hillsides  
along road. Lvs. to 85 cm. long.  
~~Sp~~ finely membranaceous.  
Spatha reflexed, light  
green or reddish. Spadix  
light brown. Frequent.

Alt 740 ft. 3.8 mi. from  
highway. (Bonda).

Alt. 224 m.

3583. Anacardium excelsum

Destroyed:

Large tree 20 m. tall.  
Lvs. sub coriaceous. Fls.  
yellow. Young fr. green.

3584.

Spiny tree. 3 m. tall in field  
along drainage ditch.

Alt. 300 ft.

Lvs. yellow-green. Fruits yellow-  
orange, Sweet.

3585.

Acanthaceae

Weak shrub in secondary  
forest, steep hillside. 1-2 m. tall.  
Fls. scarlet.

3586. Croton

Shrub 2 m. tall in secondary  
forest. ♀ + ♂ fls.

3587. Scheelea cf. butyracea Palmaz  
(12) (Mutis ex L.f. ? Karst. ex H. Wendl.)

COL  
BH  
GH  
US  
U  
K

Tree 12 m. tall growing on  
steep hillside among boulders.  
Lvs. 20 ascending, 4-5 m.  
long. (600 ft. elev.)  
det H. S. Morse, Jr.  
appr. J. Dransfield

~~3588~~ Tree 14 m growing on roadside  
fruits dull green, much latex from  
fruits and stem, reddish tinge to top  
of leaf - bottom too especially the younger  
leaves - venetia green.  
"Mamon de leche"  
Alt. 550-600 ft.

~~3589.~~ Cassia

Dry gravelly hillside, along  
road. Tree with spreading  
Crown 4 m. tall.  
Lvs. light green, shiny  
above; dull pale green beneath.  
Petals yellow-orange.

600 ft. elev.

3590. Ficus

Shrub 3 m. tall on hillside.  
FRS. green becoming white then  
red at maturity.  
Milky white latex.

3591.

"Jagua" n. v.

Rubiaceae

Nearly leafless few branched  
tree 4 m. tall. New leaves bright  
yellow green. Branches stout.  
FRS. large, dull pink to  
greenish grey. Flesh tawny  
soft, rather foul smelling.

3592. Tabebuia

Tree to 8 m. tall along  
road between Cienaga - Santa  
Marta. Elev. 170 ft.  
Corolla bright yellow.

3 MAY 1974

COLOMBIA: Dept. Magdalena.

~~3593~~ *Pereskia colombiana*

Grt?

photos.

Tree 7 m. tall, along roadside  
mi. from Santa Marta on  
road to Ciénaga. Frequent.

Young leaves & calyx yellow-  
green, with thin red margin.  
Petals, filaments, anthers  
bright yellow.

Odor of root beer.

~~3594~~ *Plumeria*

Hillside along road ~~at~~ 1 km  
from Magdalena-Cesar border  
toward Valledupar.

Nearby unbranched shrub  
1-3 m. tall. Corolla pure  
white, deep yellow inside tube  
and at mouth. Odor of gardenia.  
Abundant latex.

4 MAY 1974, Valledupar.

~~3595~~. Anona

destroy v.n. "Anona"

Tree cult. in garden. 6 m.  
tall. Fls. pale green. Frs.  
glaucous. Flesh white.

~~3596~~ Anona

destroy v.n. "guanabana"

Tree 5 m. tall cult. in  
garden. Frs. light green, spiny.  
Flesh white,

Between Rio Seco & the pueblo  
of Laramina  
9 MAY 1974. Laramina  
3597. Erythroxylum laramina

Cyto

Road from Valledupar to  
Atunques, 18 mi. from NW of  
Valledupar. 1200 ft. elevation.  
Roadside woods, badly cut  
over and thinned,  
Reddish brown, <sup>rocky</sup> gravelly soil.

Much branched

Shrub with 1 to many main  
trunks 1-8 cm. in diameter  
at base, 1-3 m. tall.

Bark smooth, greyish brown to  
reddish brown with grey striate  
lines. Twigs (new) light green,  
lenticellate. Old twigs reddish  
to greyish brown.

~~the~~ Leaves newly formed,  
thin membranaceous, yellowish  
green above, dull; pale grey  
green beneath, no lines or zones -  
not present.

Figs. 1-6 in last season's  
leaf axils. Pedicel and calyx  
light green, calyx lobes yellowish  
or brown.

Young fruits light green, turning



bright shiny red at maturity.

Very frequent at this locality.

3598. *Erythroxylum*

Shrub 1.5 m. tall. Frs. green.  
Same as 3597.

3599. *Erythroxylum*

Shrub 1 m. tall. Frs. green.  
Same as 3597.

oxycarpum O. Schulz  
3600. Erythroxylum orinocense HBK.

Tree 5-10 m. tall with forked  
trunk 15 cm in diameter at  
base. Bark dark grey,  
Lf. sample sent exfoliating in strips. ~~for~~

to Duke 16 MAY 74.

Young branches grey or grey-  
brown. New twigs bright green.

Lvs. firm membranaceous,  
light green above (becoming  
darker green), pale green  
beneath. No lines or areolae  
present.

Buds bright yellow-green  
in axils of new growth.

Sympatric with 3597-99.

3780.0

ECON  
US  
COL  
F  
MO  
P  
UPS  
B  
RB  
NCU

WOOD: AW

Colombia: Depto. Cesar  
Mun. Valledupar.  
7 May 1974

Atauques Elev. 2400 ft.

3601 Datura innoxia

(2) N.r. 'chamico'

Ch

Roadsides in gravel waste  
places.

Doncehuí.

3602. Capsicum frutescens L.

seed

RNG

det. B. Pickersgill 1976.

Cult. near Housyard. Fls. creamy  
white. Frs. bright red.  
Very picante.

8 MAY 1974.

1636 m. elev.



Sagrona

5500 ft. elev.

3603. *Chrysophyllum*

Sapotaceae

"manzana"

Tree 40 ft. Calyx golden brown. Lvs. dark green shiny above, reddish brown pubescent beneath. Hillside ravine.

3604? *Acalypha*

Col

Treelet 5 m. tall. Lvs. bright green. Achenes reddish brown. Hillside ravine.

3605.

Compositae

Scrambling Subshrub  
2 m. tall. Fls. magenta,  
Moist ravine.

3606. *Piper*

Tree 8 m. tall, trunk 20 cm. diameter. Spikes greenish white.

→ 5600 ft.

3607. ~~Eugenia~~ Myrcia sp. probably undescribed.  
(4) ~~(1)~~ det. R. McVaugh. 1975.

MICH Moist ravine. Tree 3-4 m.  
GH tall. Lvs. light green. FRs. red  
turning black.

Col

3608. Peperomia  
(3)

Col  
GH

Creeping succulent herb on  
moist hillside. Spikes creamy  
white.

rivularis (Vahl) C. Chr.

3609. Nephrolepis (~~cordifolia~~) feru.  
GH (5) det. MTM.

Col  
U

Fern on moist hillside.  
Fronds to 1.5 m. long.

3610. Adiantum tenerum Swartz  
GH (5) det MTM

Col

MICH  
U  
US

ADIATUM PRINCEPS MOORE  
DET. D. B. LELLINGER 1989

Along Rio Donachui. 5500-5600 ft.

3611. Cassia

Shrub on open cut over hillside. Flowers deep yellow. Fruits light green.

3612. Rubus

GH

Scandent shrub on open hillside. Petals pale pink.  
"Koti morado" N.V.

3613. Ficus

Tree 6 m. tall, 20 cm. trunk. Abundant latex. Frs. yellow-green.

3614. Tillandsia usneoides (L.) L.

(4)

Hanging epiphyte. Fls. yellowish-green.  
det LB Smith 1976

3615. Baccharis sp.

Compositae

(5)

det. EH Zardini

Shrubs 1 m. tall. Involucres light green. Fls. white.

US  
Col.  
GH

GH  
Col.  
US  
UC

Crops at Sogorne ~~Barbados~~. 5500 ft.

coca	morito - purple dye plant
maquer	guamo -
cruz de azucar	Coix
platano	Papa
<del>manizilla</del>	Canna sp.
aguacate	frijol
mango	chayote
gandule	Gossypium
eucalypto	celantro
limon	
cebazo	
piña	
Cebolla	
café	
tobacco (doz) - syrup	
- Yuca	
few "manizilla"	
- malanga	
aji picante	
yame	
arracacha	
ahuyama (other calabash)	
poroto	
tomate	
cebollin	
maiz	
naranja	

3616.  
(5)

Cepri folia.

Small tree 5 m. tall. Bark  
reddish brown. Young fruits  
light green.

3617. Bougainvillea aurea Lagerheim  
(3) ~~parviflora~~

Shrub growing on bank of  
Rio Donachui. 2.5m. tall.  
Fls. pure white. Old fruits  
persistent, brown + rotting.

3618. Chrysanthemum parthenium L.  
(2)

Cult? herb around dwellings  
at Sogrome. Rays white.  
Disc yellow.

3620.  
~~3619.~~ Nicotiana glauca

~~Herb to 1 m. around dwellings  
at Sogrome. Fls. creamy  
white.~~



~~3619.~~

~~3620.~~ Agave Fourcroya foetida?

ELON

Cult. ± caulescent to 6 m.  
tall. Lvs. 1.8 m. long.

---

8 MAY 1974. Sogrome.

3620A Coix lacrymze-jobi.

(3) "milagro"

col

Cult. herb 1 m. tall.

3621. Arracacia

(2) "arracacha"

col

Cult herb to 1.5 m. tall.

Young fruits dark purple.

~~3622.~~ Sechium vulgare

Vine in house yard. Fls.  
yellow-green.

3623. *Phaseolus vulgaris* L.

(4) v.a. marcuze

Vine growing in homeyard  
cult. Fls. pale violet.

Col  
ECW

~~3624. *Colocasia*~~

"malunga chimila"  
Cult. herb.

3625. *Xanthosoma*

"quiru"

Herb 7 m. tall cult. for  
chicken feed. Rhizome yellow  
within.

Used for snakebite also.

OK  
~~3626. *Inga*~~

(4) "guamo"

Tree 8 m. tall along river.  
Fls. white. Frs. Golden-brown.  
Aril is eaten.

Col  
NY  
GA

3627. *Inga*

(5) "guamo"

Tree 6 m. tall in homeyard.  
Fls. white.

NY  
Col  
GH

3 MAY 74 <sup>now</sup>  
3628. Erythroxylum coca  
"jallo"

soil!

a. Shrub 2 m. tall. Bark reddish-brown. Lvs. bright yellow-green above, pale green beneath distinctly bitineate, areolae same color; lateral nerves darker green, ± distinct. Stipules creamy yellow. <sup>Young</sup> Buds yellow. Lvs. recently picked.

b. Shrub 3 m. tall. More recently picked. Frs. greenish-yellow, immature.

c. Shrub 1 m. tall. Buds nearly mature, creamy yellow to white.

Cultivated in hillside field along river, moist black soil.

Branches ascending, arching over when too long. Little evidence of pruning.

Lf. sample  
sent to Duke  
16 MAY 1974.  
Chewed after toasting. Poporo contains only powdered seashells.  
→ 3628-D. Dried leaves toasted for chewing. Culled from this plot.

GH  
Col.  
ECAN  
F

- Along Rio Donachui.  
3629. Mauria heterophylla HBK. Meliaceae  
(7) Quebracho ~~the bark~~  
Tree 6 m. Frs. green.  
Sap poisonous.

3630. Miconia æruginosa Naud. Melastomac.  
GH det Wurdack 1975  
Shrub 3 m. tall. Fls.  
white.

GH  
Col

3631. Solanum  
(2)  
Shrub 3 m. tall. Frs.  
green.

GH  
Col

3632. Solanum  
(2)  
Shrub 3 m. tall. Frs.  
green.

3633. Buddleia sp. Verbenac.  
NY (H)  
Treelet 3-4 m. tall. Frs.  
brown.

3634 Lantana glandulosissima Hayek  
3634 ~~Lantana camara~~ det HN Moldenke FS  
NY (1)  
Shrub 2 m. tall along trail.  
Fls. yellow to red.

3635  
~~3635~~ Bidens  
(2)  
cd Herb in fields. Rays white.  
Tube fls. yellow.

3636. Crotalaria maypurensis HBK.  
(4)  
GH  
col  
u Shrub 2 m. tall. Fls. yellow.

~~3637~~ Lepidium  
GH  
Weed in fields.  
When cooked, serves as remedy  
for sick animals.

3638. Chusia

(13)

CA  
NY  
GH

Shrubs 2 m. tall growing  
in rocks along riverbank  
lvs coriaceous, dark green  
above, pale yellowgr. below.  
Fls. bright yellow green  
with flush of pink.

→ Anthurium fraternum Schott det  
Croat 1981.

3639. Anthurium cf. ochraceum

GH (6) "timracha." det Dan Nicolson 1986

Col  
MO  
K  
US

Terrestrial herb ~~fls.~~

1-2 m. tall, with caulis  
to 1 m. lvs. ovate cordate.

Spathe <sup>P</sup>light green at first,

becoming more coriaceous  
and larger. Spadix at first  
with bright pink perianth.

Perianth becoming pale  
brownish-pink, finally  
brown. Ovary at first  
creamy white, becoming  
deep reddish purple.

SEL# 47-75-16

3640. Iresine celosia L. Amaranthaceae.  
GT  
COL  
(2) ~~Scandent~~  
~~Shrub~~ Shrub 2 m. tall.

3641. Epidendrum leucophaeum  
AMES  
OL  
Selby  
U  
(6) n.v. "Kuk'chuimi." "sarmósiya" (Arhuaca)  
Large epiphyte on rocks +  
tree limbs along river. 2 m. tall  
Fls. very abundant pure white,  
becoming ochre yellow with  
age.

3642. Polypodium phyllitides L. det DSB  
GT (6) "Keraguara kaktil." 1974.  
cd  
US  
J  
mich  
Entire leaved fern growing  
clump along river on rocks.  
usr: riz para golpe y para dobr de ovario  
de mujer.

3643. Vriesia hitchcockiana (L.B. Smith) L.B. Smith Bromeliad.  
GT  
n.v. "ma mü pusana"

Epiphyte in tree.  
det. L.B. Smith '76.

Celso Viazfaña Viazfaña

A. Aereo 532

Valledupar

+ su hermano Adelberto

Faustino (Comisario) Otilio

Pentax <sup>1:2</sup>/55 mm. Super Takumar



9 MAY 1974. Sagrume to Sacaracungue

3644. Piper  
(4) "gunguna"

GH  
Col.  
F

Shrubs 2 m. tall in moist  
2° forest.

Anacardiace

~~3645.~~

Tree 6-8 m. tall.

3646. Bougainvillea aurea  
(2)

Col  
MO  
GH

Tree 6 m. tall along ravines  
and river banks in forest.

Trunk 20 cm. diameter. Fls. pure  
white. Frs. green, remaining  
on plant. Rotting + dropping  
seeds into river.

Sacraamque 6200 ft.  
Crops.

Maiz  
frijol  
peanut  
arrozcha  
tomate  
cebollin  
papa  
pepino (Cyclanthera).  
Brassica (mustard)  
Cana  
Coca  
plantano  
cero de azucar.  
Colocasia  
chayote  
Col (Brassica oleracea Broccoli)  
~~Agave~~ Fourcroya  
ayama squash.  
3676 - Bromelia

3647. Spigelia sp.

(5)

GH  
Col.  
US

Scandent shrub with long trailing stems. Wet bank along trail. Fls. ~~vibrant~~ pink.

3648. Coccythium?

(2)

Rubiaceae

GH  
Col.

Low growing weak herb on forested hillsides along trail.

Fruits sessile, cobalt blue, soft and fleshy.

3649 Ardisia f. guyanensis Myrsinaceae

(3)

(Aubl.) Mez

GH  
Col.  
K

Tree 4-6 m in moist forest along river. Leaves rubbing, dark green above, slightly paler green beneath. Fruits dark red turning purple black. Petals pink.

3650

GH (1)

Piperaceae

Peperomia - creeping fleshy herb in moist hillside. Stems greenish-brown. Leaves shiny, dark green above, pale green

beneath - leaves fleshy coriaceous. Spikes yellowish green.

3651

(2)

Piperaceae.

Col.  
GH

Peperomia - semi erect fleshy herb, stems reddish purple, fleshy. - leaves shiny dark green above, dull pale green beneath spikes yellowish green. -

3652 Croton

(3)

Euphorbiaceae.

Col  
GH

Croton. weak shrub 1.5 m tall - in forest along river. flowers creamy white

3653 Croton

(1)

Euphorbiaceae

GH

Croton. scrubs to tree up to 4 m. in forest golden brown pubescence on stem & pedicels. Calyx ~~po~~ very pale green fruit. yellowish green.

Moist Rocks along Rio Donachui along trail  
to ~~Sacacungue~~ Sacacungue.  
altitude (5750 ft) 1742 m.

3654 Iresine celosia L. Amaranthaceae

(4)

GH  
COL  
U

Scrambling shrub 2 m tall. Leaves bright green  
inflorescence creamy white to Pink

3655. Mandevilla

Apocynaceae.

(2)

GH  
COL

vine 4 m long, flowers pure white

3656 Campelia Zanonia

Commelinaceae.

(4)

(L.) HBK.

COL  
U  
GH

~~Dichorisantha~~ - 2 m tall - herb, flowers  
white. fruits creamy white, leaves shiny  
above, yellow green - dull pale green beneath  
leaves with margin edged in purple.

~~3657~~

3657 Hoffmannia?

Rubiaceae

(2)

GH  
COL

scrub .5 m - buds light green, fruits round  
bright red berry with very soft white  
flesh.

Peperomia reflexa (L.f.) Dietr.

3658

P. praeceae

(2)

Col.

Peperomia - fleshy herb - leaves  
bright yellow green - inflorescence  
creamy white

3659 Epidendrum

Orchidaceae

(4)

ELON  
Selby

Col  
US

(Epidendrum) Herb 1-2 meters tall, leaves thin  
coriaceous - Deep yellow green on both  
sides - Rachis green with purple  
coloration. Ovary green, sepals yellow  
green above, green or yellowish green with purple  
coloring beneath - petals filamentous  
yellow green. Column light green lower half  
white above lip white fading to yellow  
with age.

fraxinifolium Jacq.

3660 Polypodium ~~fraxinifolium~~ Polypodium.

GH (6)

U  
Col.  
MICH  
US

fern with longitudinal creeping  
rhizome. ~~ferns bright yellow~~

3661 Polypodium cf.

Polypodium

G# (1) taxifolium

Small fern on rock along river.

3662 Asplenium cuspidatum Lam. Asplenium ?

G# (3) var.

det MTM

col.  
U

fern on rock along stream - mossy rock.

3663 P. cf. laevisolatum

Polypodium :

G#

Small fern on top of mossy rock.

Polypodium angustifolium Swartz.

3664.

G# (4)

det MTM

Polypodium.

col.  
U  
MICH

fern on wet rock in stream - frond shiny dark green  
above pale green beneath Rhizome - pale  
bluish green - Glauous - roots reddish  
brown.

Sph-romeris spathulata det J. Hickey

Loxoscaphe thecifera HBK.

3665 Asplenium theciferum Polypodiaceae.

G# (2)

(HBK.) Mett.

det DSB.

col.

on rocks.

3666  
(1)

Orchidaceae.

on mossy ~~tree~~ tree trunk - leaves  
somewhat fleshy - flowers deep salmon  
pink, ~~very~~ bright yellow green. - fruit  
bright yellow green

3667 Begonia

Begoniaceae.

2 ~~Begonia~~ - tall fleshy herb 2m. with  
single main stem - branches short  
relatively - leaf leaves shiny dark  
green above, pale green beneath.  
flowers pale pink to white.

COL  
GH

3668 Jungia ferruginea L.f. Compositae ~~1989~~.

(2) det TP 74

COL  
GH

Climbing vine on trees and rocks. - inflorescence  
brown.

3669 Lycopodium cf. lycopodium

U  
K

GH (5)

texifolium Swartz

Hanging herb on rock. from single root.

COL  
US

HUPERZIA LINIFOLIA (L.) TREV.

DET. D. B. LELLINGER 1989



Oreopanax

3670

(not matched at COL) Araliaceae

(6)

GH  
COL.  
US  
U  
F

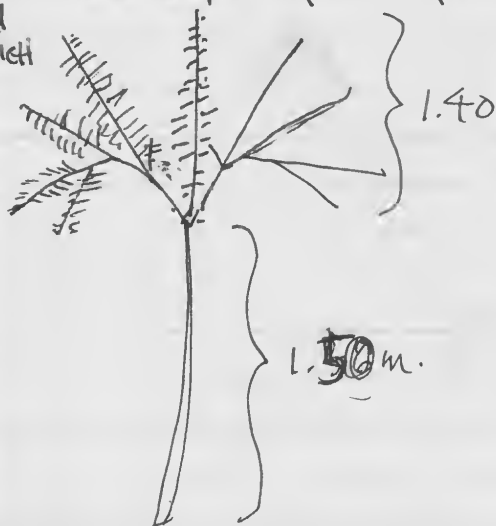
Tree with few branches - 30 ft - 8 m. along river. Leaves palmately lobed - leaves above - dark green dull smooth - densely pubescent beneath - greenish grey, leaves subcoriaceous - fruits bright-light green

3671 Pteris podophylla Sw.

(5) det DSB 1974.

COL.  
US  
U  
HIGH

Acaulescent fern growing in wet place ~~in a deep~~ in forest. petiole 1.50 m. - fronds 1.40 m.



3672 Morenia sp.

Palmae

(2) "matambita"

col

BH

GH

small palm - 7m. fruit & infructescences  
rachis yellow dull - fruits bright green.  
det H.S. Moore.

Sacra guaque. Alt. 6200 ft.  
Cultivated plants.

3673. Cyclanthera pedata.  
(1)

Cult. vine in houseyard.  
FRs. light green

3674. Brassica oleracea

col

Cult. in garden.  
1.0 m. tall Fls. white.

3675. Brassica

Mustard?

Herb cult. in garden. Fls.  
yellow.

Puya sp.  
3676. ~~Bromelia of joint~~  
N.v. Besa

Bromeliace.

Econ  
Col.  
US

- (4) Large cult. rosette plant.  
Spines on leaf margins. Lvs.  
shiny light green above, white  
beneath, dull.  
Stem + rhizome used as root  
vegetable.

3677. Cucurbita.  
ahuyama

Vine creeping on ground.  
Cult. for squash which are  
fed to pigs.

3678. Arachis  
Econ (3) "maní"

Col

Low growing compact herb.  
Cult. in garden. Fls. orange-  
yellow.

3679. Allium  
ECON (1) "~~Cebollin~~"

Cult. herb. Bulb light brown, sheath red-purple, lvs. green.

3680. Canna edulis L.

(2) "perico"

Coh.  
U.  
ECON Cult. herb to 2.5 m. tall in garden. Lvs. light green with purple veins + margin. Bracts brownish-purple. Ovary red-purple. Calyx pink. Petals reddish-pink. Stamens bright red-orange.

Tuber is used for pig food.

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3681. Cortaderia  
(2)

GH  
Coh.

Herb in ravine near Sacaracungue. Elev. 6000 ft.

Near Sogrome 5600 ft. 11 MAY 1974

3682 Toxicodendron striatum (L.) Kuntze Anacardiaceae

(8) "queraka" det WT Gillis 10/74

COL  
ECON  
GH F  
US MO  
u  
~~u~~

Tree 8 m. tall on hill-  
side. FRs. white.

Sap caused dermatitis.

To cure it, the leaves are  
boiled + applied to affected  
areas.

3683. Erythroxylum

(?)

ECON n.v. jallo  
COL

Shrub 1-2 m. tall.

Buds creamy white.

FRs. pale yellow.

Brought by Aurelio.



Donachuri. 4400' for Elev.  
3684. Erythroxylum novogranatense  
(Morris) Hieron

Small planting of 6 shrubs  
in moist field near river.

Plants 1-2 m. tall, all  
young plants. Growing with  
peanuts, onions, squash, platano,  
coriander, beans, yuca,  
malanga, corn.

frs

ECOL  
NCU  
COL  
MEXU

A. Shrub 1.5 m. Fruits bright  
red. Lvs. membranaceous;  
med. dark green to bright  
yellow green, distinctly  
areolate-bilinate. Areols  
very slightly paler than rest  
of leaf beneath.

COL  
ECOL  
US  
NCU

B. Shrub 1.5 m. tall. Frs.  
green to red-orange, <sup>long</sup>ovate.

COL  
ECOL  
NCU

C. Shrub 1 m. tall. Frs.  
green. Buds cream.

COL  
ECOL  
US  
F

D. Low shrub with sprawling  
branches, 50 m. tall. Frs. yellow  
green.

66  
E. Shrub 1 m. tall.

3685. Erythroxylum novogranatense

Medium size planting  
of about 100 shrubs on  
hillside. Interplanted with  
corn, yuca, malanga,  
taro.

fotos.

ECOL  
F

A. Shrub 2.0 m. tall with few  
leaves. Frs. bright red,  
abundant. Broadly ovoid  
to subglobose.

COL  
ECOL  
US  
F

B. Much branched Shrub  
2.5 m. tall, recently  
picked. Frs. oblongoid,  
bright yellow green.

COL  
F

C. Shrub 1.5 m. tall with  
distinctly ascending branches.  
Frs. long ovoid, bright  
shiny green.

COL  
F  
NCU

D. Shrub with diffuse spread-  
ing branches, 1.5 m. tall.  
Frs. oblong-ovoid, bright



yellow green.

6L E. Shrub with dense branches,  
Econ erect. Lvs. smaller. Frs.  
small, yellow-green.

Crops at Atanquez

papaya

badea

lechuga

frijol

Donachui

toronja.

mani

Cebollin

ahuyama

platano

celantro.

frijoles.

yuca

malanga

maiz

Caca

11 MAY 1974

Road Donachui-Sogrome. 4900 ft.

3686. Acrostus arborescens (L.) Schlecht.  
det. A. Huziker 1976.

GH (1)

Small tree 4 m. tall in cut  
along road. Fls. creamy white,  
4 merous.

Sogrome

3687. Pteramnium spruceana Simarub.

? (1) v. r. uru (Arhuaco). Morito (Sp.)

ECON

Tree 8-9 m. tall. Lvs. shiny  
above, dark green. Fls. small,  
greenish yellow.

Lvs. used to make purple dye  
for dyeing cabulpa.

Stromanthe jacquinii (R. + S.) Kennedy + Nicolson

3688. Morantia (Stromanthe) lutea Morantae.

(2) det. ~~del~~

Tall 2 m. herb in wet  
place. Infl. rachis, bracts,  
fls. orange. Lvs. bright  
green throughout.

GH  
cd  
HK

Donachui. 4400 ft.

3689. *Philodendron grandifolium*?  
GTH (6) det. Dan Nicolson Fl

Col.

K  
US

Epiphytic climbing  
herb along Rio Donachui.  
Ls. cordate-lanceolate, smooth  
coriaceous, lustrous dark  
green above, paler green  
beneath. ~~Frs.~~ Spathe  
pale green at base, pale  
pink above. Spadix ♀  
pale yellow, sterile + ♂  
pale creamy.

P. LINDENII SCHOTT

DET. T. Groat 1994

3690. *Erythroxylum ~~novogranatense~~*  
n.v. jallo (Morris) Hieron.

Col

ECOV

Young plant 1 m. tall  
cult. near Donachui.  
Frs. bright red.  
Seedlings.

3691. Canna edulis

Gr4

Cult. herb 1 m. tall in coca field.  
Bracts brown. Calyx magenta.  
Corolla pink. Stamens  
bright red-orange.

(3692) Euphorbia

destroyed

Weed in coca field. Stems  
reddish. Fls. greenish-yellow.

3693. Galinsoga

Weed in coca field. Stems  
fleshy. Rays white. Disc yellow.

3694

~~3694~~ Sida?

(1)

Weed in coca field. Very fre-  
quent. In bud.

3695. Bidens

Herb to .7 m tall. Weed  
in coca field. Very fre-  
quent.

3696. Amaranthus

Weed in coca field.  
Infl. light green.

3697. Adiantum macrocladum Kl.  
CH (3)

Herb .8 m. tall in  
coffee plantation.

Col  
MCH  
u

Trail from Donachui toward  
Chimencumena.

3698. Baccharis trinervis Pers. Compositae  
(2) det. J. M. Idrobo 1974.

GH  
Col.

Shrub 2 m. tall. Fls. white.  
Growing on cut-over, often barren  
hillsides. Frequent.  
Near Donachui. 4200 ft. elev.

3699. Anthurium crassinervium (Jacq.) <sup>Arec.</sup>  
GH (2) det. T. Croat 1986. Schott

Col.

Large herb growing on  
boulder in <sup>moist</sup> forest. Lvs. to 1 m.  
long. Spathe dark green.  
Spadix brown.  
Near Donachui. 4200 ft. Elev.

3700. Dodonaea viscosa (L.) Jacq.  
(4)

Col  
GH  
K

Shrub to small tree on  
cutover hillsides. 1.5-3 m.  
tall. Frs. light green to pink.

3701. Beeria cf. zestuanus Mutis Ericac.  
(2)

COL  
GH

Low shrub 1 m. tall.  
Fls. bright pink.  
Cut-over hillsides. 6000 ft.  
elev.

3702. Anthurium  
GH (1)

Terrestrial herb with  
stem up to 1 m. tall.  
Sterile. 6100 ft. elev.

3702-A  
(1)

Orchid

COL

Epiphyte herb on tree  
limb. Fls. greenish.

Elev. 6100 ft. in remnants  
of moist forest along ravine.



3703

rotted.

Ficus

Tree 6 m. tall on edge of  
ridge. New lvs. bright green.  
Frs. light green, spotted.

White latex. Growing in open  
in cut-over area. Elev. 6100 ft.

Philodendron (Sect. Pteromischum) sp.  
3704. ~~Monstera~~ det Don Nicolson  
GIT(3)

Col  
US

Climbing herb<sup>to</sup> 3-4 m. long  
on ground and tree trunks.  
Sp ~~dark~~ dark green.  
Elev. 5000 ft.

Between Rio Seco and La Mina.  
1200 ft. Elev.

13 MAY 1974

10 mi. SE of Atanquez

3705. *Erythroxylum* orinocense HBK

ECON  
US

same as 3600.

Buds more mature,  
yellow.

8 mi. SE of Atanquez

3706. *Erythroxylum* havanense Jacq.

ECON

RB  
NCU  
UEC

US

F

GH

COL

S

NY

K

IAN

Shrub 2 m. tall on  
cliff overhanging road  
with spreading branches.  
Leaves bright ~~yellowish~~  
green, pale green beneath.  
Frs. bright red-orange,  
ovoid-ellipsoid.

3707. *Erythroxylum* havanense Jacq.

ECON

Low shrubs 5 m. tall in  
thin ~~rocky~~ woods. Lvs. bright gr.  
above, pale grey-green beneath.  
Frs. light green.

3708. *Erythroxylum*

Econ

Shrub 1.2 m. tall. Lvs. above  
med. green, pale green be-  
neath. Frs. deep red, sub-  
~~globose~~ to broad-ovate.

3709. *Ilex*  
(3)

col

Small tree 5 m. tall in  
thin woods (2') along road.  
Fls. white.

14 May 1974.

29 mi. SW of Valledupar  
between Aguas Blancas  
and Mariocola.

3710. Scheelea sp.

Polinae

(6) det. J. Dransfield 1979. 10 m.

Frequent tree (3-20 m.)  
tall in pastures and  
savannas. ~~tree~~ 1

Fruits light green to  
yellowish.

Col.  
BH  
GH  
U  
K

3711. Cenchrus ciliaris L. Gramineae

(6) det T. J. Dransfield

Herb in pasture.

Col  
US  
GH  
U  
F

20 May 1974.

COLOMBIA: Depto. Magdalena.

Parque Tayronas. (Cñaveral).

~ Elev. 100 ft. ~

3712. Solanum

(4)

GH  
MO  
Col.  
BIRM

~~Shrub~~ 1 m. tall along trail.  
Petioles purple. Lvs. green on  
both sides. Petals white, reflexed.  
100 ft.

3713. Aristolochia maxima Jacq.

(5)

GH  
Col.  
U  
F

Climbing herbaceous vine. Fruits  
pendant, light green. 16 cm long,  
5 cm. diameter, 6-ribbed. Lvs.  
coriaceous, subnitid above.

Secondary thicket.

100 ft. elev.

Ovary + corolla lt. coffee brown.

3714. Desmodium

(4)

GH  
Col  
K  
MO

Trailing herb. Fls. magenta  
pink. Along trail.

3715. Mentzelia aspera L.

Loasaceae

(2)

Herb 0.5 m. tall, scabrous. Fl.  
pale orange. Along trail in  
poor soil.

3716. Melothria guadelupensis (Spreng.) Cogn. Cucurbit.

(3)

Herb vine 2 m. tall  
in 2' growth along trail.

3717. Solanum lanceifolium Jacq. s.s. Solan.

(4)

det. M. Nee 1985.

Scandent vine along trail.  
Frs. still green.

3718. Hamelia patens Jacq. var. suaveolens (HBK.) Elias

(4)

det D.S. Simpson 1976.

Shrub 2-3 m. tall along  
trail. Frequent. Corolla red-  
orange.

→ Hamelia patens Jacq. var. glabra A. N. S. P.  
det P.M.

Cited as 3733

in Madison

Contrib. Herb Gray 207.  
1977

Alt. 45 m.

Elev. 150-200 ft. Rocky woods,

Malvaceae

3719.

(2)

GH  
Col  
U

Shrub 1-2 m. tall along trail.  
Corolla light pink. Stamen tube +  
stigma light pink.

3720. Desmoncus horridus Splitz ex Mart.

(5)

Col  
BH  
U

Climbing palm 4 m. tall. Infrescence light green, axillary.  
Frs. light green.

3721. Dorstenia contrajerva L.

(4)

GH  
Col  
U  
US

Herb growing on soil banks along  
path in poor soil. Infl. green.

3722. Monstera adansonii Schott var. lanista (Schott)

U. GH (6)

Madison det Madison 1975

Col.  
US

first pale green, then brownish.

Climbing epiphytic herb 3 m. tall.  
Spathe still green. Infrescence

~ 250 ft. Elev. = ~ 76 m.

3723. Anthurium clavigerum Poepp. + Endl.

GH(6) det. Den Nicolson 1976

US  
COL.  
MO  
K  
F

Climbing epiphyte or scandent shrub in 2° woods + thickets  
Spathe light greenish-purple. Spadix light purple. Frs. reddish purple in brownish fr. spadix.

3724. Clytostoma pterocalyx <sup>Bigoniaceae</sup> Sprague ex Urb.  
(4) det A. Gentry

MO  
COL.  
GH

Vine 4 m. tall in 2° woods and thickets. Fls. light magenta.

3725. Clavija longifolia (Jacq.) Mez  
(5)

GH  
COL.  
US  
K

Unbranched shrub 1.5 m. tall. Frs. bright orange, heavily predated white still on plant.

Wittia panamensis Britt. + Rose  
3726. Epiphyllum

GH  
COL.  
US

(3)  
Epiphyte growing on boulders, succulent. Frs. light green.



3727. *Dichorisandra*  
(2)  
GH  
GL.

Herb to 1 m. tall. Stem and lower leaf surface str. purple.  
Lvs. dark green above, edged with dark purple at margin.  
Frs. black.

3728. *Erythroxylum* f. havanense

Econ  
US

Small shrub to 1 m. tall.  
Growing among boulders of hillsides in 2<sup>nd</sup> forest. Only 3 seen, all immature.

Bark light <sup>to reddish</sup> brown. Lvs. dark green above, dull; pale green beneath with marked areolar region which is lighter. Distinctly bilineate.

21 MAY 74 Colombia: Depto. Magdalena  
Parque Salamina, ca. 20<sup>mi</sup> East  
of La Puente

3729. Erythroxylum carthagenense Jacq.

det. Plowman 1975.

ECON

GH

US

MO

COL

Small tree, 3 m. tall with  
many, spreading branches,  
trunk 12 cm. diameter.

Lvs. bright green, newly  
formed, membranaceous,  
darker green above, dull;  
pale green beneath, bi-  
lineate.

Growing near sea level  
in sand. Burned over place.

3730. Erythroxylum carthagenense Jacq.

det. Plowman 1975.

ECON

US

GH

MO

F

COL

U

NY

K

Much branched tree  
5 m. tall among shrubs  
& small trees. Unburned  
place near 3729.

3731. Lemaireocereus griseus (Haw.) Britt. + Rose  
 Cactaceae  
 (6)

Tree 4-6 m. tall, In sandy areas near the sea. FRs. deep red; hypanthium deep red. Frequent.

GH  
 Col.  
 US  
 K  
 NY

COLOMBIA: Depto. de Córdoba.  
 10 mi. N. of Planeta Rica  
 22 May 1974.

3732. Sesbania grandiflora (L.) Poir. Fabaceae  
 (8) ~~Azadirachta indica~~

GH  
 Col.  
 MO  
 NY  
 K  
 US

Small tree 5 m. tall cultivated in houseyard. Fls. large, pure white. Fors. light brown at maturity. Occasional.

3733. Cassia siamea Lamb. det. K. Barney 1975.  
~~lucens Vog.~~

(12) Tree to 8 m. tall cult. in houseyards and escaped along roadsides. Fls. deep yellow; fruits greenish-brown. Frequent.

NY  
 GH  
 US  
 Col.  
 MO  
 F  
 U  
 K  
 MICH

Dept. Antioquia.  
Medellin.

26 MAY 1974. Jardin Botánico.

3734. Erythroxylum <sup>novogranatense</sup> ~~novogranatense~~ (Morris) Hieron.

COL

(4)

ECON

S

US

F

Small tree 6 m. tall.

Cult. at Jardin Botánico.

Trunk bifurcated at base,

6 + 8 cm. in diameter.

Bark dark greyish brown,  
somewhat cracked & occasionally  
flaking off.

Mostly unbranched for 2.5  
m. (due to pruning?)

Upper branches weak, slender,  
pendant. Lvs. light green, br.  
yellow green when young,  
dull, bilineate beneath,  
pale grey-green, areolar  
region more yellowish-green.

2 June 1974

Cundinamarca: near Honda. Quebrada.

3735. *Philodendron*

(2)

WL

Climbing epiphyte. Lvs. hastate.  
Spadix green beneath, cream  
above.

3736. *Dieffenbachia*

(3)

GH  
Col

Terrestrial herb growing along  
in woodland stream. Lvs. leathery.  
Spathe lt. green. Midrib yellow-  
green

2 June 1974.

Caldas: along road from Manizales,  
to Fresno, near Caldas-Tolima  
border, 32 km east of Manizales.  
Alt. 3189 m (10500 ft.). Subparamo.

3737. *Bomarea*

(2)

GH  
Col

Vining herb among shrubs.  
Sepals red-orange abaxially,  
yellow adaxially. Petals deep  
yellow with red-orange midrib,  
spotted brown axially. Ovary  
purplish-brown.

3738. *Calceolaria perfoliata* L.f.

(4)

GH  
Col.  
K  
F

Scandent shrub 2 m. tall  
in shrubs. ~~Fls~~ bright yellow.  
Calyx bright yellowish green.  
Lvs dark green above, pale grey-  
green beneath.

3739. Lupinus tolimensis C.P. Smith

(4)

det Kew 1977.

Scandent herb to 1 m. tall.  
Fls. blue-violet.

3740. Begonia articae L.f.

(3) det L.B. Smith 1976.

Succulent herb  $\frac{1}{2}$  m. Reddish  
stems; Lvs green above, pale beneath  
with red nerves. Fls. deep pink.

3741. Gaultheria cordifolia HBK.

Ericaceae

(2) det TP 1977

Shrub 1.5 m. tall. Fls. dark red  
turning black. Lvs. leathery,  
shiny dark green above, pale yellow  
green beneath. Stem + petiole red.

3742. Lycopodium sp. clavatum

GH (7) det DSB.

Creeping terrestrial vine.  
Foliage light green. Strobili yellowish.

SARACHA QUITOENSIS (HOOK.) MIERS

DET. HUNZIKER 1994

3743. Pocillochroma

Solanaceae

(9) aff. sodiroi Dammer

Col  
E (ON)  
GH  
F  
MO  
BIRM  
U  
US

Spiny shrub to 3 m. tall.  
Lvs. shiny dark green above,  
yellow green beneath.  
Bark light brown, scurfy-rugulose.  
Fls. calyx shiny bright green,  
corolla deep yellow with brown  
at center, fleshy. FRS. obovoid,  
(A) K

3744. Centropogon ferrugineus

Lobeliaceae

(4) (L.f.) Gleason

GH  
fol

Shrub 2 m. tall. Lvs.  
bright green above, semi-  
shiny. Calyx scurfy brown.  
Corolla orange, teeth yellow.  
Stamen tube lt. yellow,  
anthers blue-black.

3745. Elaphoglossum

GH (5)

Col  
MICH  
U  
US

Herb on banks along road-  
side on bare soil.



3746. Elaphoglossum  
GH (2)

Col Creeping herb among lichens  
& mosses on road bank.

Tibouchina andreae Cogn.  
3747. ~~Tibouchina grossa~~ det Wurdack 1975  
(4)

AS

COL

K

GH

Shrub 1-2 m. Fls. deep ~~red~~ red.

3748. Epidendrum frutex Rehb. f. Orchid

AMES

(3)

Col

P

Herb 1.5 m. tall in clump.  
Fls. small, yellowish-green.

3749. Hebecladus lanceolatus Miers  
ECON (6)

Col

MO

BIRM

W.D. Daniel

Tall sparse herb 1.5 m tall. Lvs.  
dark purplish green. Calyx & pedicel  
blackish green. Corolla pale yellow.  
Frs. pale yellow orange.

(A) K

3750. Fuchsia cf. petiolaris HBK.

(3)

GH  
Col  
U

Shrub on hillside 2 m.  
tall. Lvs. bright green, ~~st.~~  
midrib + nerves pink below.  
Corolla + hypanthium bright  
rose-pink

~~1~~ Caldas: near border with Tolima,  
46 mi. west of Honda.  
Alt. 9500 ft.

~~(4)~~  
3751. ~~Anemone~~ Thalictrum podocarpum HBK.

(5)

GH  
COL  
MICH  
U  
US

Scandent herb 2 m. tall on  
roadside. Creamy yellow  
perianth. Anthers yellow.

~~Toxoma gomerioides (HBK.) Hier~~  
3752. ~~Acnistus~~ Dumelia  
(5)

GH  
MO  
COL  
BIRM  
US

Scurfy shrub or treelet to 3 m.  
tall. Calyx grey-green.  
Corolla golden yellow.

(4) → K

Caldas: outskirts of Manizales;  
on road to Fresno.

3753 - Erythrina

- GH  
col (2) Small tree used as fencepost,  
2 m. tall. Petals bright red-orange.

COLOMBIA: Depto. Tolima.  
Hacienda Corinto entre  
Melgar y El Carmen de  
Apicalá. 1450m. Bosque  
de galería a lo largo del  
Rio Sumapaz. Alluvium.  
6 Junio 1974.

3754. Erythroxylum ulei O.E. Schulz.

Shrub 1-1.5 m. tall, to 3 cm  
diameter at base. Bark  
on main stem, light brown,  
wrinkled striate; twigs  
darker brown, smoother. Stipules pale green.  
Branches slender, ascending  
at 45° angle; Older lvs. dark  
green above, dull, pale green  
beneath, not bipinnate but  
areolae scarcely distinguishable,  
firmly membranaceous.

Young lvs. bright yellow green  
above, pale green beneath.

Fls. solitary in axils, pedicels  
+ calyx lt. green, petals white  
turning yellowish.

Frs. shiny br. green, acuminate.  
Lvs. damaged by sucking bug.

UPS  
F  
NCU  
MEXU  
UEC  
IND  
NY  
MO  
US  
ICA  
K  
IUPA  
TEX

3754-A. Coleoptera

→ F on flowers (?) of 3754.

3755. Monstera adansonii SCHOTT

(A) det Dan Nicolson FG

Climbing herb on tree trunk, to  
4 m. tall. Spadix creamy white.

SEL #47-75-6.

3756. Chlorophora tinctoria

(6)

Tree 6 m. tall along road at  
edge of field.

COL  
ECON  
US  
R

Cundinamarca: Road between Melgar  
+ Agua de Dios Elev. 1800 ft.

3757. Dalechampia karsteniana

(3) det Glebocka 75. Pax et Hoffm.

Herb. Vine in thickets along  
roadside. Bracts rose-pink.  
~~Fls~~ Fruits black, sticky.

GH  
Col.  
DAVIS

Cundinamarca: Along Rio Bogotá  
above Apulo (Rafael Reyes)  
across from Fabrica de Cemento  
Semper. 2100 ft. elev.


3758. Vanilla

(2)

Vining herb hanging  
from cliff 20-30 ft. long,  
succulent. Sepals + petals  
light green; lip creamy-  
yellow with green nectar  
guide.

Col

~~3758A. Peperomia polybotrys~~

live  Succulent herb on steep dry  
(4187) bank above river. Spikes white.

3759. Erythroxylum hondense HBK.

ECON

US  
COL

Small shrub to 2 m. tall in secondary woods along rocky quebrada, on hillside near river. Sterile.

Bark smooth, greyish to reddish brown. Lvs. dull dark green above, pale greyish green beneath, without lines or vesicles.

3760. Anthurium glaucoespadix Croat

Arac.

(2) det. ~~F. H. H. H.~~ <sup>Croat</sup> 1986.

COL

Large herb on rock 1.5 m tall. Lvs. coriaceous, spatulate oblanceolate. Spathe lt. green turning lt. brown. Spadix light brown.

3761. Oxosiris

GH

(1) ♂

Herb 1.5 m tall; lvs. all near apex of stem. Involucre light green. Rays bright pink.

Cundinamarca. Quebrada Seca,  
9 mi. south of Fusagasuga on road  
to Melgar. Alt. 1050 m. (3700 ft.)

3762. Serjania grandis Seem. Sapindaceae

(8) ~~det C. Groat 75~~ det C. Niezgodka 1976

Vine in secondary thickets  
along stream. Fls. white.

Frs. 3-winged, light green  
becoming red.

col 3763. Helicteres baruensis Jacq.  
ECON (8)

US K  
GH P  
F

Lvs. dark  
green above,  
very pale  
greenish-white  
beneath.

Small treelet or shrub  
to 3 m. tall. Calyx pale  
greenish brown. Gynophore  
pale green to brown.

Frs. greenish with  
golden pubescence.  
M.v. "tuerce madre"

Use: Contraceptive.

6-9 fruits are placed  
with honey and water  
and cooked. Women  
take this ~~in the~~ in the  
morning and are rendered  
sterile for the following  
day.



GH  
US  
Col.  
P  
F

3764. Casuaria corymbosa  
(6)

Bushy 3 m. tall. Lvs. bright green, shiny. Fls. white to cream.

3765. Erythroxylum hondense HBK.

Econ  
US  
COL  
F  
GH  
UC

Shrub ~~to~~ 1-3 m. tall along rocky stream. Lvs. mature, dull dark green above, pale green beneath. Areolae or lines not apparent or scarcely so. FRs. <sup>dark</sup> bright green, shiny.

live → Waimea Arboretum 8 Oct 81.

(A) 71K PTBG 29 June 1984.

(= 6186, 6187)

Honolulu Bot. Garden  
Dec 1985.

3766. Croton pedicellatus HBK.  
ECON (5) det G.L. Webster JS

Col  
Davis  
GH  
P

Aromatic herb or subshrub to 1.0 m. tall. Stems reddish-brown. Fls. cream.

use: stems used to make brooms.

3767. *Cannabis sativa*

(2)  
ECON(2) Cult. Jardin Botánico de  
Bogotá.

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Woburn, Mass. 4 Mar 74

3767 <sup>4</sup> A. Canna

Herb 5 m. tall cult.  
in green house. Staminate  
bright red. Corolla dull  
red.

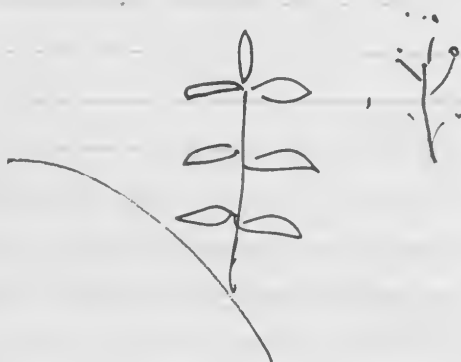
From San Vito, Prov. Guanacaste,  
Costa Rica.

3488 Sept 10, 1904





Sacarcungne 6200 ft.



long leafed Anthurium  
from Chigrodo  
of A. vittariaefolium

